

MICROGRAPHIA.

for the proportion of the same Water, to the same very
 of Wine was, as 21. to 19.
 Experiment, which I exhibited before divers illustrious
 Royal Society, that the Refraction of Water was greater
 through some considerable Authors have affirm'd the con-
 sideration, that the Ice be a very hard, and the Water a very fluid
 of the two preceding Propositions is true, may be
 Experiments: As first, if you take any two liquors dif-
 fer in density, but yet such as will readily mix as Salve
 and almost any kind of Salt dissolv'd in Water, and filter
 the Spirit of Wine and Water; nay, spirit of Wine, and
 the more highly rectify'd then the other, and very many
 (say) you take any two of these liquors, and mixing
 them, against one side of which you have fix'd or glued
 a Paper, and shaking them well together (so that the
 mixture be somewhat disturb'd and move up and down) you
 will perceive the Figure to wave, and to be indistinct
 in manner as the limb of the Sun through a Telescope
 that the mutations here, are much quicker. And
 in a Circle, you take a very small spot, and fasten it
 you will find it to appear much like the twinkling
 much quicker: which two Phenomena (for I find
 at present, though I could instance in multitudes
 may be caus'd by an inflection of the Rays within
 of the compounded medium, since the surfaces
 through which the Rays pass to the eye, are not
 may so call it) I imagine to be nothing else, but a
 caus'd by the unequal density of the constituent
 whereby the motion, action or progress of the Ray
 proceeding in a straight line, and inflected or de-
 low, that it is a curve line is manifest by this Expe-
 such as ADGE, in the first Figure of the 37. Schem.
 and EFGH, were made of two smooth solution
 and filling it half full with a very strong solution
 the other half with very fair fresh water, then expos'd
 to the Sun, I observ'd both the refraction and
 rays, ID & KH, and marking as exactly as I could
 by which the Ray, KH, pass'd through the com-
 and them to be in a curve line; for the parts of it
 ally more dense the nearer they were to the bot-
 be mechanically explained, either by Motion

Schem. XXXVII.

